

State of California
The Resources Agency

DEPARTMENT OF WATER RESOURCES
Division of Operations and Maintenance

STATE WATER PROJECT OPERATIONS DATA

For the month of:
February 2003

Gray Davis
Governor
State of California

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Secretary for Resources
The Resources Agency

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Director
Department of Water Resource

State of California
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The organization shown above represents staff and positions relevant to this report as of publication date on July 18, 2003. It is the department's policy to not show staff in "Acting" or "Temporary" positions.

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MONTHLY HIGHLIGHTS

The following highlights are activities or actions that impacted State Water Project operations during the month of February 2003.

Statewide precipitation was 100 percent of average for the 2002-2003 water year as of February 28. Statewide runoff was 100 percent of average for the water year. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available via the internet at: http://cdec.water.ca.gov/snow_rain.html.

On February 28, total storage in major SWP reservoirs was about 3.7 MAF, compared with about 3.8 MAF at this time in 2002. End of month storage at Lake Oroville was about 2.27 MAF as compared to 2.14 MAF last year. The State's share of San Luis Reservoir storage was about 847 TAF, as compared with 1.03 MAF at this time last year. The combined storage in our southern reservoirs was about 604 TAF, compared with about 617 TAF at this time last year.

Through February, SWP water deliveries for 2003 were about 306 TAF. This is a combination of project, transfer, and exchange waters. This is about 62 TAF less than delivered during the same period in 2002.

By mid month, water quality had degraded such that the Projects needed to maintain Delta outflow at or above 29,200 cfs (on a 3-day average) and thus meet compliance with the X2 standard. To meet the standard, diversions from the Delta were curtailed for on February 14 and 15 (it soon rained enough to offset the pumping cuts), and releases from Shasta, Folsom, and Oroville were all increased.

Table 1. Antelope Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

February 2003

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow 1/	
				Regulated Release			Spill	Estimated Evaporation And Seepage 1/		
				Stream-flow Maint.	Water Supply Contract	Water Right				
Jan 31	4993.72	15,607								
1	4993.88	15,727	120	5	0	0	0			
2	4994.02	15,833	106	5	0	0	0			
3	4994.13	15,916	83	5	0	0	0			
4	4994.20	15,977	61	5	0	0	0			
5	4994.28	16,030	53	5	0	0	0			
6	4994.34	16,076	46	5	0	0	0			
7	4994.41	16,129	53	5	0	0	0			
8	4994.47	16,175	46	5	0	0	0			
9	4994.52	16,214	39	5	0	0	0			
10	4994.58	16,260	46	5	0	0	0			
11	4994.64	16,306	46	5	0	0	0			
12	4994.68	16,336	30	5	0	0	0			
13	4994.76	16,398	62	5	0	0	0			
14	4994.81	16,457	59	5	0	0	0			
15	4994.87	16,483	26	5	0	0	0			
16	4995.01	16,592	109	5	0	0	0			
17	4995.07	16,638	46	5	0	0	0			
18	4995.09	16,654	16	5	0	0	0			
19	4995.17	16,716	62	5	0	0	0			
20	4995.22	16,755	39	5	0	0	0			
21	4995.27	16,779	24	5	0	0	0			
22	4995.32	16,834	55	5	0	0	0			
23	4995.36	16,865	31	5	0	0	0			
24	4995.42	16,912	47	5	0	0	0			
25	4995.45	16,936	24	5	0	0	0			
26	4995.49	16,967	31	5	0	0	0			
27	4995.53	16,999	32	5	0	0	0			
28	4995.58	17,038	39	5	0	0	0			
Total cfs-days				---	140	0	0	31	171	893
Total ac-ft				1,431	278	0	0	62	340	1,771

1/ Values not available on a daily basis.

Table 2. Frenchman Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 55,477 ac-ft

February 2003

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow 1/	
				Regulated Release			Spill	Estimated Evaporation And Seepage 1/		
				Stream-flow Maint.	Water Supply Contract	Water Right				
Jan 31	5564.16	25,323								
1	5564.31	25,469	146	2	0	0	0			
2	5564.38	25,537	68	2	0	0	0			
3	5564.57	25,723	186	2	0	0	0			
4	5564.62	25,772	49	2	0	0	0			
5	5564.67	25,821	49	2	0	0	0			
6	5564.75	25,900	79	2	0	0	0			
7	5564.76	25,910	10	2	0	0	0			
8	5564.80	25,949	39	2	0	0	0			
9	5564.87	26,018	69	2	0	0	0			
10	5564.83	25,979	-39	2	0	0	0			
11	5564.92	26,067	88	2	0	0	0			
12	5564.95	26,097	30	2	0	0	0			
13	5565.05	26,196	99	2	0	0	0			
14	5565.09	26,235	39	2	0	0	0			
15	5565.13	26,275	40	2	0	0	0			
16	5565.15	26,295	20	2	0	0	0			
17	5565.22	26,364	69	2	0	0	0			
18	5565.28	26,424	60	2	0	0	0			
19	5565.28	26,424	0	2	0	0	0			
20	5565.27	26,414	-10	2	0	0	0			
21	5565.35	26,494	80	2	0	0	0			
22	5565.38	26,523	29	2	0	0	0			
23	5565.43	26,573	50	2	0	0	0			
24	5565.47	26,613	40	2	0	0	0			
25	5565.47	26,613	0	2	0	0	0			
26	5565.55	26,693	80	2	0	0	0			
27	5565.56	26,703	10	2	0	0	0			
28	5565.57	26,713	10	2	0	0	0			
Total cfs-days				---	56	0	0	0	59	
Total ac-ft				1,390	111	0	0	0	118	
									229	
									1,619	

1/ Values not available on a daily basis.

Table 3. Lake Davis

Daily Operation
(in acre-feet except as noted)

Capacity: 84,371 ac-ft

February 2003

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow 1/	
				Regulated Release			Spill	Estimated Evaporation And Seepage 1/	Total Outflow 1/		
				Stream-flow Maint.	Water Supply Contract	Water Right					
Jan 31	5763.65	45,352									
1	5763.74	45,608	256	10	0	0	0				
2	5763.75	45,637	29	10	0	0	0				
3	5763.77	45,694	57	10	0	0	0				
4	5763.78	45,723	29	10	0	0	0				
5	5763.78	45,723	0	10	0	0	0				
6	5763.79	45,751	28	10	0	0	0				
7	5763.79	45,751	0	10	0	0	0				
8	5763.79	45,751	0	10	0	0	0				
9	5763.79	45,751	0	10	0	0	0				
10	5763.81	45,808	57	10	0	0	0				
11	5763.81	45,808	0	10	0	0	0				
12	5763.81	45,808	0	10	0	0	0				
13	5763.84	45,894	86	10	0	0	0				
14	5763.87	45,980	86	10	0	0	0				
15	5763.89	46,009	29	10	0	0	0				
16	5763.93	46,152	143	10	0	0	0				
17	5763.94	46,181	29	10	0	0	0				
18	5763.95	46,210	29	10	0	0	0				
19	5763.95	46,210	0	10	0	0	0				
20	5763.97	46,267	57	10	0	0	0				
21	5763.98	46,296	29	10	0	0	0				
22	5763.98	46,296	0	10	0	0	0				
23	5763.98	46,296	0	10	0	0	0				
24	5763.99	46,325	29	10	0	0	0				
25	5763.99	46,325	0	10	0	0	0				
26	5763.99	46,325	0	10	0	0	0				
27	5763.99	46,325	0	10	0	0	0				
28	5763.99	46,325	0	10	0	0	0				
Total cfs-days				- - -	280	0	0	0	101	381	
Total ac-ft				973	555	0	0	0	200	755	
										1,728	

1/ Values not available on a daily basis.

Table 4. Lake Oroville

Daily Operation

(in acre-feet except as noted)

Capacity: 3,537,580 ac-ft

February 2003

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow					Inflow	
				Hyatt Powerplant Generation 1/	Palermo Canal	Evaporation 2/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 3/
Jan 31	796.59	2,153,511								
1	798.20	2,171,503	17,992	79	0	14	0	93	1	18,084
2	799.95	2,191,178	19,675	1,349	0	32	0	1,381	3,570	17,486
3	801.26	2,205,988	14,810	3,298	0	90	0	3,388	1,997	16,201
4	802.36	2,218,478	12,490	3,610	0	45	0	3,655	0	16,145
5	803.58	2,232,389	13,911	3,220	0	135	0	3,355	1,941	15,325
6	804.72	2,245,442	13,053	3,395	0	65	0	3,460	1,604	14,909
7	805.50	2,254,404	8,962	4,630	0	189	0	4,819	0	13,781
8	806.50	2,265,930	11,526	2,119	0	170	0	2,289	0	13,815
9	807.42	2,276,571	10,641	3,087	0	79	0	3,166	0	13,807
10	808.23	2,285,968	9,397	5,007	0	59	0	5,066	1,934	12,529
11	808.35	2,287,362	1,394	11,058	0	85	0	11,143	0	12,537
12	808.16	2,285,154	-2,208	13,021	0	53	0	13,074	0	10,866
13	808.13	2,284,806	-348	16,104	0	13	0	16,117	0	15,769
14	808.32	2,287,013	2,207	14,007	0	13	0	14,020	0	16,227
15	808.64	2,290,734	3,721	7,589	0	20	0	7,609	0	11,330
16	809.12	2,296,324	5,590	12,508	0	59	0	12,567	0	18,157
17	808.92	2,293,994	-2,330	14,772	0	46	0	14,818	0	12,488
18	808.68	2,291,200	-2,794	15,730	0	53	0	15,783	0	12,989
19	808.65	2,290,851	-349	15,451	0	53	0	15,504	0	15,155
20	808.39	2,287,827	-3,024	15,070	0	0	0	15,070	0	12,046
21	807.87	2,281,788	-6,039	19,292	0	66	0	19,358	0	13,319
22	807.55	2,278,077	-3,711	14,543	0	46	0	14,589	0	10,878
23	807.81	2,281,092	3,015	8,202	0	85	0	8,287	0	11,302
24	807.05	2,272,287	-8,805	18,870	0	72	0	18,942	0	10,137
25	806.45	2,265,353	-6,934	19,398	0	20	0	19,418	0	12,484
26	806.71	2,268,356	3,003	8,422	0	98	0	8,520	0	11,523
27	806.36	2,264,314	-4,042	13,416	0	65	0	13,481	0	9,439
28	805.96	2,259,701	-4,613	13,165	0	79	0	13,244	0	8,631
Total		106,190	280,412	0	1,804	0	282,216	11,047	377,359	

1/ Includes bypass flows

2/ Evaporation will be zero for days when there is precipitation or heavy overcast.

3/ Does not include pumpback.

**Table 5. Thermalito Forebay
Including Diversion Pool and Power Canal**

Capacity: 25,120 ac-ft

Daily Operation
(in acre-feet except as noted)

February 2003

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County	Thermalito Irrigation District	Releases To River 4/	Hyatt Powerplant Pumpback	
Jan 31	24,587										
1	23,837	-750	79	537	19	0	0	1	1,252	1	-131
2	23,810	-27	1,349	476	3,020	104	0	1	1,250	3,570	53
3	23,937	127	3,298	506	1,637	2,180	0	1	1,253	1,997	117
4	24,323	386	3,610	516	36	2,568	0	1	1,252	0	45
5	23,866	-457	3,220	643	1,615	2,664	0	1	1,253	1,941	-76
6	24,160	294	3,395	482	1,345	2,196	0	1	1,247	1,604	120
7	24,438	278	4,630	514	0	3,634	0	2	1,240	0	10
8	23,868	-570	2,119	506	0	1,946	0	2	1,255	0	8
9	24,469	601	3,087	509	0	1,840	0	2	1,252	0	99
10	23,803	-666	5,007	516	1,585	4,646	0	2	1,252	1,934	60
11	23,716	-87	11,058	509	0	10,582	1	2	1,259	0	190
12	24,001	285	13,021	514	0	12,155	1	2	1,273	0	181
13	23,719	-282	16,104	496	0	16,034	1	2	1,277	0	432
14	24,005	286	14,007	514	0	13,284	1	2	1,265	0	317
15	24,148	143	7,589	508	0	7,011	1	2	1,269	0	329
16	24,374	226	12,508	509	0	12,154	1	2	1,277	0	643
17	23,978	-396	14,772	506	0	14,527	1	2	1,261	0	117
18	24,002	24	15,730	509	0	15,097	1	2	1,257	0	142
19	24,179	177	15,451	581	0	15,213	1	2	1,261	0	622
20	23,654	-525	15,070	434	0	15,609	1	2	1,261	0	844
21	23,635	-19	19,292	518	0	18,826	1	2	1,257	0	257
22	23,864	229	14,543	510	0	14,299	1	2	1,254	0	732
23	23,511	-353	8,202	518	0	8,005	1	2	1,252	0	187
24	23,576	65	18,870	500	0	18,252	1	2	1,253	0	203
25	24,154	578	19,398	510	0	18,347	1	2	1,254	0	274
26	24,119	-35	8,422	547	0	7,828	1	2	1,251	0	78
27	23,870	-249	13,416	460	0	13,180	1	2	1,249	0	307
28	23,879	9	13,165	512	0	12,394	1	2	1,254	0	-17
Total		-708	280,412	14,360	9,257	264,575	18	50	35,190	11,047	6,143

1/ Sum of Thermalito Forebay and Diversion Pool.

3/ Includes Bypass flows at Thermalito.

2/ Sum of releases from Lake Oroville through Hyatt plant, and spill.

4/ The sum of the flows from fish barrier dam and the fish hatchery.

Table 6. Thermalito Afterbay

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

February 2003

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow					Losses (-) and Gains (+)	Total Releases to River 2/
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback		
Jan 31	130.71	34,552										
1	130.32	33,223	-1,329	0	0	0	0	0	1,252	19	-58	2,504
2	129.04	29,036	-4,187	104	0	0	0	0	1,257	3,020	-14	2,507
3	128.83	28,374	-662	2,180	0	0	0	0	1,248	1,637	43	2,501
4	129.18	29,481	1,107	2,568	0	0	0	0	1,257	36	-168	2,509
5	129.12	29,290	-191	2,664	0	0	0	0	1,255	1,615	15	2,508
6	128.95	28,751	-539	2,196	0	0	0	0	1,255	1,345	-135	2,502
7	129.63	30,933	2,182	3,634	0	0	0	0	1,250	0	-202	2,490
8	129.83	31,589	656	1,946	0	0	0	0	1,246	0	-44	2,501
9	129.97	32,052	463	1,840	0	0	0	0	1,253	0	-124	2,505
10	130.49	33,799	1,747	4,646	0	0	0	0	1,242	1,585	-72	2,494
11	130.31	33,190	-609	10,582	0	0	0	0	10,433	0	-758	11,692
12	129.54	30,640	-2,550	12,155	0	0	0	0	13,745	0	-960	15,018
13	129.88	31,754	1,114	16,034	0	0	0	0	13,745	0	-1,175	15,022
14	129.38	30,122	-1,632	13,284	0	0	0	0	13,765	0	-1,151	15,030
15	126.88	22,579	-7,543	7,011	0	0	0	0	13,726	0	-828	14,995
16	125.91	19,932	-2,647	12,154	0	0	0	0	13,745	0	-1,056	15,022
17	126.45	21,387	1,455	14,527	0	0	0	0	12,298	0	-774	13,559
18	127.29	23,745	2,358	15,097	0	0	0	0	11,742	0	-997	12,999
19	127.14	23,316	-429	15,213	0	0	0	0	14,480	0	-1,162	15,741
20	127.09	23,173	-143	15,609	0	0	0	0	14,757	0	-995	16,018
21	128.12	26,191	3,018	18,826	0	0	0	0	14,757	0	-1,051	16,014
22	127.39	24,034	-2,157	14,299	0	0	0	0	14,737	0	-1,719	15,991
23	124.57	16,518	-7,516	8,005	0	0	0	0	14,698	0	-823	15,950
24	125.71	19,404	2,886	18,252	0	0	0	0	14,242	0	-1,124	15,495
25	127.58	24,587	5,183	18,347	0	0	0	0	12,258	0	-906	13,512
26	126.61	21,827	-2,760	7,828	0	0	0	0	10,294	0	-294	11,545
27	128.17	26,342	4,515	13,180	0	0	0	0	8,271	0	-394	9,520
28	130.01	32,185	5,843	12,394	0	0	0	0	6,288	0	-263	7,542
Total			-2,367	264,575	0	0	0	0	240,496	9,257	-17,189	275,686

1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

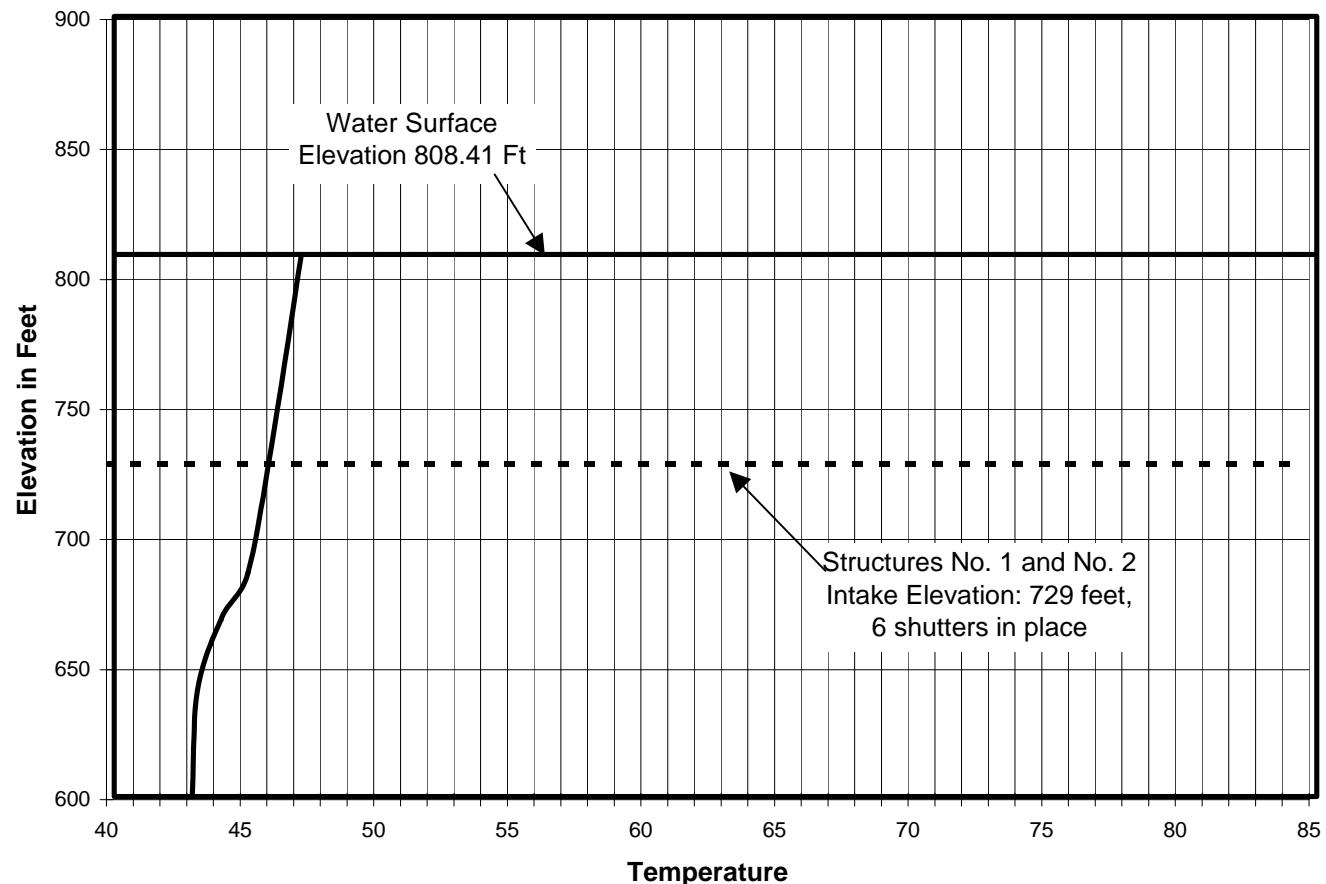
Table 7. Oroville-Thermalito Complex

Water Temperature Data

(in degrees Fahrenheit)

February 2003

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	51	47
2	51	48
3	50	48
4	50	48
5	49	47
6	49	47
7	48	47
8	48	47
9	48	47
10	48	47
11	48	47
12	47	47
13	47	47
14	48	47
15	48	47
16	48	47
17	48	46
18	47	47
19	47	47
20	47	47
21	48	48
22	48	47
23	49	47
24	48	47
25	48	47
26	48	47
27	48	47
28	48	47

**Lake Oroville Temperature Profile
on February 19, 2003**

Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

Table 8. North Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)							February 2003					
Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries			2001-02 Carryover			
	Beginning and Ending					Entitlement						
	No.	Structure	Mile			M & I	Benicia	Vallejo				
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	1,648				111			
		Travis Surge Tank	8.78						73			
			8.80	Solano County Water Agency Travis Turnout	111				90			
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	73							
	2			Solano County Water Agency Fairfield / Vacaville 42"	90							
			17.00	Solano County Water Agency Central Solano	Stub							
		Cordelia Forebay	21.23									
3A	3A	Cordelia Pumping Plant & Cordelia Spillway	21.30		1,270				5			
		Napa Pipeline	21.33	Solano County Water Agency Vallejo	5				503			
				Solano County Water Agency Benicia	503							
	3B	Cordelia Surge Tank	23.33									
		Creston Surge Tank Connection	25.65									
			26.95	Napa County Flood Control & WCD American Canyon 2	0							
			27.27	Napa County Flood Control & WCD American Canyon 3	0							
		Napa Terminal Tank	27.58	City of Napa	634							
			27.60	Napa County Flood Control & WCD American Canyon 1	128	42			86			

Table 9. Delta Field Division Plant Data

(in acre-feet)

February 2003

Date	North Bay Aqueduct		California Aqueduct		South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	58	34	14,177	14,177	0	0	0	210
2	53	40	14,197	14,197	0	0	0	209
3	81	44	14,144	14,144	0	0	0	208
4	78	41	13,658	13,658	0	0	0	200
5	79	41	13,999	13,999	0	0	0	215
6	80	61	14,171	14,171	48	0	0	224
7	68	40	14,566	14,566	232	0	0	183
8	51	45	14,588	14,588	349	0	0	124
9	46	41	14,340	14,340	339	0	0	120
10	48	37	14,515	14,515	349	0	0	139
11	57	39	14,254	14,254	349	0	0	112
12	45	39	14,197	14,197	349	0	0	72
13	51	40	14,125	14,125	349	0	0	75
14	46	36	1,060	1,060	349	0	0	69
15	43	37	982	982	349	0	0	69
16	46	39	15,181	15,181	349	0	0	67
17	46	38	14,163	14,163	349	0	0	66
18	59	51	14,160	14,160	349	0	0	66
19	66	55	14,088	14,088	349	0	0	49
20	57	45	14,118	14,118	349	0	0	68
21	66	55	14,152	14,152	349	0	0	72
22	56	51	14,233	14,233	349	0	0	82
23	58	56	14,297	14,297	349	0	0	67
24	55	49	14,364	14,364	350	0	0	59
25	69	58	14,180	14,180	350	0	0	67
26	65	60	7,843	7,843	350	0	0	67
27	62	52	5,962	5,962	350	0	0	68
28	59	46	9,017	9,017	350	0	0	65
Total	1,648	1,270	352,731	352,731	7,604	0	0	3,092

Table 10. Clifton Court Forebay

Daily Operation of Gates

February 2003

Date	Time								Amount of inflow in Acre-Feet
	Opened	Closed	Opened	Closed	Opened	Closed	Opened	Closed	
1	3:00	14:00	17:00	21:31					14,435
2	3:15	15:00	17:50	21:27					14,477
3	3:45	15:45	18:30	22:10					14,467
4	0:30	1:15	4:15	16:30	19:15	---			14,003
5	---	1:30	5:35	17:30	20:00	---			13,719
6	---	1:45	4:45	18:30	20:45	---			14,171
7	---	2:40	5:15	19:30	22:00	---			13,576
8	---	6:30	10:15	16:45	19:45	---			14,373
9	---	7:00	10:48	18:00	21:00	---			13,888
10	---	7:45	11:30	19:15	22:15	---			14,106
11	---	9:00	12:15	20:15	23:15	---			14,469
12	---	10:00	13:15	20:50					14,262
13	0:06	11:00	14:00	20:00					14,361
14	1:00	2:18							974
15	2:15	13:45							961
16	2:15	13:45	16:45	23:06					14,428
17	2:45	14:45	17:30	---					14,443
18	---	0:30	3:30	15:15	18:45	---			14,418
19	---	0:45	3:45	16:45	20:19	23:15			14,475
20	0:15	1:15	4:25	18:31	20:25	22:15			14,311
21	0:01	1:45	4:45	15:00	18:00	22:30			14,260
22	0:01	0:15	9:30	16:15	19:15	23:50			14,125
23	0:10	6:45	10:15	17:30	20:30	---			14,470
24	---	7:30	11:15	19:00	22:00	---			14,471
25	---	8:45	11:55	19:45	23:00	---			14,460
26	---	10:15	20:25	21:00					7,929
27	0:35	11:30							5,919
28	1:50	6:50	8:45	12:30	15:30	21:30			10,632
Total inflow for the month in AF:									354,583

Table 11. Governor Edmund G. Brown California Aqueduct
 Delta Field Division, Monthly Deliveries

(In acre-feet)

February 2003

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	USBR	Local	Loan Water	Article 12E Carryover		
	No.	Structure	Mile									
1	Banks Pumping Plant	3.32			352,731							
2A	1	South Bay Pumping Plant	4.49	Bethany Reservoir inlet	7,604		51					
		Check No. 1	5.95									
		Check No. 2	12.01									
	3		12.47	Musco Olive	51							
		Check No. 3	18.29									
	4		22.16	Tracy Golf & Country Club	0							
		Check No. 4	23.99									
	5	Check No. 5	29.73									
	6	Check No. 6	34.24									
	7		35.22	Turlock Fruit Company Inflow	0							
		Check No. 7	39.91									
	8		42.46	Oak Flat Water District-A	7							
			42.9	Western Hills WD	0							
			43.81	Oak Flat Water District-B	0							
			44.64	Oak Flat Water District-C	0							
		Check No. 8	45.97									
	9		46.18	Oak Flat Water District-D	11							
				Oak Flat Totals:	18	0	0	0	0	18		
2B	Check No. 9	51.3										
	10	Check No. 10	56.86									
	11	Check No. 11	61.4									
	12		66.14	Veteran's Cemetery	4							
		Check No. 12	66.71		323,739							

Table 12. South Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

February 2003

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	Extended Carryover	Purchase Pool B	Local	Recreation		
	No.	Structure	Mile									
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	7,604							
			3.17									
			3.18									
	Check No. 1		3.91									
	2	Check No. 2	5.21									
2	3		7.21	Zone 7 Altamont	0							
		Check No. 3	9.49									
4	4	Check No. 4	10.68	Zone 7	0							
	5	Check No. 5	12.29									
	6		13.55									
			14.16									
			14.31									
	Check No. 6		14.65									
	7		14.78									
		Check No. 7	16.38									
	8		16.57									
			16.69									
			16.70									
		Del Valle Branch Pipeline Junction	18.63									
5	Deliveries through Del Valle Branch Pipeline			Arroyo Valle #1 & #2 Project Water	0							
6			19.20	Arroyo Valle #1 & #2 Inflow Released	338							
7	La Costa Tunnel		19.21	Lake Del Valle Recreation	2							
8	Mission Tunnel		22.50	Zone 7 - Kalthof Detjens ACWD	0							
9	Santa Clara Pipeline		25.97	Vallecitos Project Water City of San Francisco San Antonio	0							
			28.97	ACWD - Bayside 1 & 2 Project Water: Inflow Released Inflow Exchange:	1,169 0 0							
			35.86	S.C.V.W.D. Meter	6,871							

Table 13. Lake Del Valle
Daily Operation

Capacity: 77,106 ac-ft

February 2003

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct	Recreation Deliveries 2/	Evaporation	Total Outflow	
Jan 31	696.40	35,413									
1	696.04	35,176	-237	-26	0	0	210	0	1	211	0.01
2	695.68	34,942	-234	-22	0	0	209	0	3	212	0.00
3	695.38	34,747	-195	17	0	0	208	0	4	212	0.00
4	695.09	34,560	-187	17	0	0	200	0	4	204	0.00
5	694.78	34,361	-199	21	0	0	215	0	5	220	0.00
6	694.48	34,168	-193	35	0	0	224	0	4	228	0.00
7	694.30	34,053	-115	72	0	0	183	0	4	187	0.00
8	694.12	33,939	-114	14	0	0	124	0	4	128	0.00
9	693.94	33,824	-115	9	0	0	120	0	4	124	0.00
10	693.77	33,716	-108	35	0	0	139	0	4	143	0.00
11	693.62	33,621	-95	20	0	0	112	0	3	115	0.00
12	693.59	33,602	-19	54	0	0	72	0	1	73	0.14
13	693.53	33,564	-38	38	0	0	75	0	1	76	0.08
14	693.47	33,526	-38	32	0	0	69	0	1	70	0.00
15	693.38	33,469	-57	13	0	0	69	0	1	70	0.00
16	693.41	33,488	19	89	0	0	67	0	3	70	0.60
17	693.37	33,463	-25	44	0	0	66	0	3	69	0.00
18	693.32	33,432	-31	38	0	0	66	0	3	69	0.00
19	693.28	33,406	-26	27	0	0	49	0	4	53	0.05
20	693.23	33,375	-31	39	0	0	68	0	2	70	0.01
21	693.15	33,324	-51	25	0	0	72	0	4	76	0.00
22	693.05	33,262	-62	24	0	0	82	0	4	86	0.00
23	692.95	33,199	-63	9	0	0	67	0	5	72	0.00
24	692.90	33,167	-32	29	0	0	59	0	2	61	0.00
25	692.82	33,117	-50	19	0	0	67	0	2	69	0.20
26	692.78	33,092	-25	45	0	0	67	0	3	70	0.01
27	692.76	33,080	-12	59	0	0	68	1	2	71	0.21
28	692.72	33,055	-25	43	0	0	65	1	2	68	0.00
Total				-2,358	819	0	0	3,092	2	83	3,177
											1.31

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

2/ To East Bay Regional Park District.

NR=No Records

Table 14. Consolidated State-Federal O'Neill Forebay

Daily Operations

February 2003

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)	
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generated)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliveries 2/ 3/		
Jan 31	221.07	45,944											
1	221.81	47,887	1,943	0	3,470	0	6,588	0	6,073	3,037	13	45	
2	220.64	44,818	-3,069	0	3,429	0	6,981	0	8,391	3,729	14	177	
3	221.66	47,493	2,675	0	3,212	0	6,458	0	5,665	3,025	13	382	
4	221.48	47,020	-473	0	3,080	0	6,762	0	7,477	2,886	14	297	
5	220.99	45,734	-1,286	0	3,082	0	6,252	0	7,305	3,378	13	714	
6	221.18	46,233	499	0	3,048	0	6,724	0	6,465	3,610	14	569	
7	221.58	47,283	1,050	0	2,875	0	6,978	0	6,005	3,955	13	649	
8	221.34	46,653	-630	0	2,677	0	6,897	0	6,332	4,137	13	590	
9	219.70	42,376	-4,277	0	2,646	0	6,816	0	8,697	3,377	13	469	
10	220.60	44,714	2,338	0	2,576	0	6,424	0	5,038	3,314	14	545	
11	220.50	44,453	-261	0	2,398	0	6,466	0	6,060	3,629	13	706	
12	222.73	50,326	5,873	0	2,393	0	6,604	0	3,218	3,282	14	478	
13	223.50	52,384	2,058	0	2,348	0	6,363	0	5,475	2,354	13	169	
14	221.72	47,651	-4,733	0	2,107	0	850	0	3,800	1,620	13	90	
15	220.77	45,158	-2,493	0	1,529	0	178	0	912	2,209	14	171	
16	220.08	43,360	-1,798	0	1,495	0	6,115	0	7,233	2,175	13	905	
17	220.87	45,420	2,060	0	1,797	0	6,734	0	6,337	1,946	14	805	
18	221.49	47,046	1,626	0	1,643	0	6,832	0	6,012	2,317	13	687	
19	221.21	46,311	-735	0	1,549	0	6,382	0	6,457	2,152	14	321	
20	221.28	46,495	184	0	1,399	0	6,678	0	6,394	1,872	14	296	
21	221.75	47,730	1,235	0	1,252	0	6,601	0	5,403	1,995	13	181	
22	221.08	45,970	-1,760	0	1,244	0	6,649	0	6,908	2,305	13	446	
23	219.23	41,170	-4,800	0	1,446	0	6,577	0	7,729	2,756	14	56	
24	222.15	48,783	7,613	0	1,528	0	6,588	0	2,906	2,117	13	758	
25	222.20	48,916	133	0	1,633	0	6,338	0	5,445	2,773	14	328	
26	221.99	48,360	-556	0	1,804	0	3,484	0	3,876	2,022	13	343	
27	221.23	46,364	-1,996	0	1,980	0	2,887	0	2,762	3,539	14	442	
28	220.64	44,818	-1,546	0	1,995	0	4,010	0	3,566	3,614	14	410	
Total				-1,126	0	61,635	0	163,216	0	157,941	79,125	377	12,024
Mean cfs				---	0	2,201	0	5,829	0	5,641	2,826	13	429
Acre-feet				-1,126	0	122,252	0	323,739	0	313,275	156,945	748	23,851

1/ Pump-in located at Mile 79.67R.

2/ Includes 25 AF delivered to DFG at O'Neill Forebay, 0 AF to Parks and Recreation, 1 AF to P&R Cattle, and 722 AF to San Luis Water District

3/ Daily values are averaged to include deliveries from February 1 through March 3.

Table 15. Consolidated State-Federal San Luis Reservoir

Daily Operations

February 2003

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 2,027,835 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)	Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/ 2/	Parks and Rec. Del.	
Jan 31	493.84	1,437,576						
1	494.90	1,449,559	11,983	6,073	0	25	0	-7
2	496.36	1,466,119	16,560	8,391	0	24	0	-18
3	497.33	1,477,156	11,037	5,665	0	26	0	-75
4	498.62	1,491,877	14,721	7,477	0	25	0	-30
5	499.80	1,505,387	13,510	7,305	0	30	0	-464
6	500.83	1,517,213	11,826	6,465	0	116	0	-387
7	501.78	1,528,149	10,936	6,005	0	71	0	-421
8	502.78	1,539,689	11,540	6,332	0	49	0	-465
9	504.18	1,555,894	16,205	8,697	0	48	0	-479
10	505.02	1,565,645	9,751	5,038	0	51	0	-71
11	506.04	1,577,514	11,869	6,060	0	51	0	-25
12	506.58	1,583,809	6,295	3,218	0	44	0	0
13	507.50	1,594,555	10,746	5,475	0	42	0	-15
14	508.13	1,601,928	7,373	3,800	0	41	0	-42
15	508.28	1,603,685	1,757	912	0	42	0	16
16	509.38	1,616,591	12,906	7,233	0	40	0	-686
17	510.37	1,628,237	11,646	6,337	0	41	0	-425
18	511.41	1,640,501	12,264	6,012	0	50	0	221
19	512.48	1,653,153	12,652	6,457	0	40	0	-38
20	513.54	1,665,719	12,566	6,394	0	31	0	-28
21	514.43	1,676,295	10,576	5,403	0	33	0	-38
22	515.57	1,689,875	13,580	6,908	0	35	0	-27
23	516.84	1,705,048	15,173	7,729	0	33	0	-46
24	517.31	1,710,676	5,628	2,906	0	34	0	-35
25	518.20	1,721,349	10,673	5,445	0	92	0	28
26	518.79	1,728,437	7,088	3,876	0	100	0	-203
27	519.19	1,733,248	4,811	2,762	0	126	0	-210
28	519.70	1,739,389	6,141	3,566	0	82	1	-387
Total		301,813		157,941	0	1,422	1	-4,357
Mean cfs		---		5,641	0	51	0	-156
Acre-feet		301,813		313,275	0	2,825	1	-8,636

1/ Pacheco Tunnel, San Felipe Split; Santa Clara: 1,519 AF, San Benito: 1,306 AF.

2/ Daily values are averaged to include deliveries from February 1 through March 3.

Table 16. San Luis Field Division Plant Data

(in acre-feet)

February 2003

Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant				San Felipe Project
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	6,024	3,223	0	0	12,046	5,152	49
2	7,396	4,523	0	0	16,643	7,313	47
3	6,000	3,146	0	0	11,236	2,503	52
4	5,724	2,229	0	0	14,831	6,197	50
5	6,700	3,165	0	0	14,489	6,740	59
6	7,161	3,638	0	0	12,823	6,342	231
7	7,845	4,293	0	0	11,911	9,028	140
8	8,206	4,652	0	0	12,560	9,065	97
9	6,699	3,186	0	0	17,251	8,052	96
10	6,574	3,045	0	0	9,993	6,102	101
11	7,199	3,709	0	0	12,021	10,638	102
12	6,509	2,985	0	0	6,382	3,843	87
13	4,669	1,098	0	0	10,860	9,523	84
14	3,213	455	0	0	7,537	6,113	81
15	4,381	817	0	0	1,808	630	83
16	4,315	767	0	0	14,346	10,438	80
17	3,859	308	0	0	12,570	9,363	81
18	4,596	1,007	0	0	11,925	8,755	100
19	4,269	750	0	0	12,807	9,838	80
20	3,714	226	0	0	12,682	12,682	62
21	3,957	1,165	0	0	10,716	10,716	65
22	4,572	1,778	0	0	13,703	13,703	69
23	5,466	2,707	0	0	15,330	15,330	66
24	4,199	1,356	0	0	5,765	5,765	68
25	5,500	2,607	0	0	10,800	10,800	183
26	4,010	1,194	0	0	7,689	4,890	199
27	7,019	4,190	0	0	5,478	2,739	250
28	7,169	4,316	0	0	7,073	4,222	163
Total	156,945	66,535	0	0	313,275	216,482	2,825

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping;
adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

Table 17. Consolidated State-Federal Los Banos Reservoir

Daily Operations

February 2003

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Jan 31	326.94	20,174					
1	326.97	20,188	14	7	0	0	0
2	326.98	20,193	5	3	0	0	-1
3	327.01	20,206	13	7	0	0	0
4	327.03	20,216	10	5	0	0	0
5	327.04	20,220	4	2	0	0	0
6	327.07	20,234	14	7	0	0	0
7	327.08	20,239	5	3	0	0	-1
8	327.09	20,244	5	3	0	0	-1
9	327.10	20,248	4	2	0	0	0
10	327.13	20,262	14	7	0	0	0
11	327.15	20,272	10	5	0	0	0
12	327.19	20,290	18	9	0	0	0
13	327.22	20,304	14	7	0	0	0
14	327.23	20,309	5	3	0	0	-1
15	327.25	20,318	9	5	0	0	-1
16	327.28	20,332	14	7	0	0	0
17	327.29	20,337	5	3	0	0	-1
18	327.32	20,351	14	7	0	0	0
19	327.34	20,360	9	5	0	0	-1
20	327.35	20,365	5	3	0	0	0
21	327.37	20,374	9	5	0	0	-1
22	327.40	20,388	14	7	0	0	0
23	327.42	20,398	10	5	0	0	0
24	327.46	20,416	18	9	0	0	0
25	327.50	20,435	19	10	0	0	0
26	327.53	20,449	14	7	0	0	0
27	327.56	20,463	14	7	0	0	0
28	327.57	20,468	5	3	0	0	-1
Total			294	153	0	0	-9
Mean cfs			---	5	0	0	---
Acre-feet			294	303	0	0	-9

Table 18. Consolidated State-Federal Little Panoche Reservoir

Daily Operations

February 2003

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 5,580 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft) 1/	Storage Change (ac-ft) 1/	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft) 1/
					Spill	Outlet	
Jan 31	602.60	826					
1	Not Observed			1	0	0	
2	Not Observed			1	0	0	
3	Not Observed			1	0	0	
4	Not Observed			1	0	0	
5	602.60	826		1	0	0	
6	602.60	826		1	0	0	
7	602.60	826		1	0	0	
8	602.60	826		1	0	0	
9	602.60	826		1	0	0	
10	602.60	826		1	0	0	
11	Not Observed			1	0	0	
12	602.60	826		1	0	0	
13	Not Observed			1	0	0	
14	602.60	826		1	0	0	
15	Not Observed			1	0	0	
16	602.60	826		1	0	0	
17	602.60	826		1	0	0	
18	602.60	826		1	0	0	
19	602.60	826		1	0	0	
20	Not Observed			1	0	0	
21	602.60	826		1	0	0	
22	Not Observed			1	0	0	
23	Not Observed			1	0	0	
24	Not Observed			1	0	0	
25	602.65	829	3	3	0	0	
26	Not Observed			1	0	0	
27	Not Observed			1	0	0	
28	602.65	829		1	0	0	
Total			3	30	0	0	---
Mean cfs			---	1	0	0	---
Acre-feet			3	60	0	0	-57

1/ Not available on a daily basis

Table 19a. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries

(In acre-feet)

February 2003

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	No.	Beginning and Ending				USBR	Transfer 1/	DWR Recreation	USBR Recreation		
		Structure	Mile								
2B	12	Check No. 12	66.71		323,739						
3A		San Luis Reservoir		Department of Parks and Recreation	1	1,985		1	0		
				San Felipe Division Santa Clara Water District	1,985						
				San Felipe Division San Benito Water District	1,407	1,407					
				Department of Parks and Recreation				0	0		
3	13	O'Neill Forebay	70.85	Cattle Program	1			1	0		
				Department of Fish & Game	25			14	11		
				70.91							
			Thru 85.08	San Luis Water District	722	722		722	11		
				(Floodwater Inflow)	0						
				Reach 3 Subtotal:	748		0	15	11		
			Check No. 13 Dos Amigos Pumping Plant								
					156,945						
4	14		89.03 Thru 94.06	San Luis Water District	4,087	4,087					
				Pacheco Water District	1,383		1,383				
				Panoche Water District	27			27			
				City of Dos Palos	68						
			Check No. 14	95.06							
			98.15 Thru 104.20	San Luis Water District	925	925					
4	15			Panoche Water District	6,429		6,429				
				(Floodwater Inflow)	0						
				Broadview Water District	1		1				
				Westlands Water District	9,944						
				Check No.15	108.50						
				San Felipe Division Total:	3,392		3,392	0	0		
				Pacheco Water District Total:	1,383		1,383	0	0		
				Broadview Water District Total:	1		1	0	0		
				City of Dos Palos Total:	68		68	0	0		
				SLWD Reach 4 Subtotal:	5,734		5,734	0	0		
				Panoche Water District Total:	6,456		6,456	0	0		
				SLWD Total:	5,734		5,734	0	0		
				Westlands WD Reach 4 Subtotal:	9,944		9,944	0	0		

1/ Water transferred from Contra Costa WD.

Table 19b. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

February 2003

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
		Beginning and Ending				USBR	Transfer	DWR Recreation	USBR Recreation				
	No.	Structure	Mile										
5	16		110.52	(Reverse flow, Kings River)	0	9,979	11,251	11,018	5,051				
			Thru	Westlands Water District	9,979								
			122.05	Department of Fish and Game	0								
		Check No. 16	122.07										
	17		124.18	Westlands Water District	11,251	11,018	423	423	0				
			132.74										
		Check No. 17	132.95										
	18		133.81	Westlands Water District	11,018	37,299	0	0	0				
			Thru										
			142.61										
		Pleasant Valley Pumping Plant	143.16	Westlands Water District	5,051								
			143.16	City of Coalinga	423								
		Check No. 18	143.23										
6	19			Westlands WD Reach 5 Subtotal:	37,299	13,716	0	0	0				
			145.26	Westlands Water District	13,716								
			Thru										
			151.19										
		Check No. 19	155.64										
7	20		156.34	City of Huron	50	9,249	166	2,744	0				
			156.40	Westlands Water District	9,249								
			Thru										
			163.69										
		Check No. 20	164.69										
	21		164.79	City of Avenal	166	2,744	0	0	0				
			167.04	Westlands Water District	2,744								
			Thru										
			171.67										
		Check No. 21	172.40		80,696								
				Reach 7 Total:	12,209	12,209	0	0	0				
				Westlands WD Total:	72,952								
				City of Coalinga Total:	423								
				City of Huron Total:	50								
				City of Avenal Total:	166								
				Phase I Water Total:	5								
Total San Luis Field Division Deliveries:					90,657	90,630	0	16	11				

Table 20. Consolidated State-Federal San Luis Canal 1/

Daily Operations
February 2003

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non-Project 2/	Dos Amigos Pumping Plant	Pools 14 & 15 3/ 5/	Pool 15 5/	Pools 15 thru 21 4/ 5/	Flow Past Check 21	
Jan 31	27,569								
1	26,855	-714	0	3,037	117	116	1,325	1,889	50
2	27,347	492	0	3,729	116	115	1,326	2,025	101
3	27,202	-145	0	3,025	117	116	1,326	1,586	46
4	26,462	-740	0	2,886	115	117	1,324	1,676	-27
5	26,662	200	0	3,378	116	116	1,325	1,558	-162
6	26,815	153	0	3,610	117	117	1,324	1,759	-216
7	27,490	675	0	3,955	115	115	1,326	1,856	-202
8	27,644	154	0	4,137	117	117	1,325	2,398	-103
9	27,689	45	0	3,377	116	116	1,326	1,847	50
10	27,966	277	0	3,314	117	117	1,324	1,538	-79
11	28,437	471	0	3,629	116	116	1,326	1,971	138
12	29,089	652	0	3,282	116	117	1,325	1,718	323
13	28,652	-437	0	2,354	117	115	1,326	1,478	461
14	27,411	-1,241	0	1,620	116	117	1,324	1,213	524
15	27,042	-369	0	2,209	117	116	1,325	1,288	451
16	26,790	-252	0	2,175	115	117	1,326	1,291	547
17	26,466	-324	0	1,946	117	115	1,325	1,016	463
18	26,851	385	0	2,317	116	116	1,324	840	273
19	27,563	712	0	2,152	115	117	1,326	553	318
20	26,892	-671	0	1,872	116	115	1,325	837	183
21	26,312	-580	0	1,995	117	116	1,326	716	-13
22	26,513	201	0	2,305	116	117	1,325	566	-79
23	27,116	603	0	2,756	117	116	1,326	1,010	117
24	26,839	-277	0	2,117	115	117	1,325	858	158
25	27,698	859	0	2,773	116	116	1,324	1,202	418
26	27,432	-266	0	2,022	117	117	1,326	1,023	427
27	27,625	193	0	3,539	115	117	1,325	2,365	480
28	27,404	-221	0	3,614	121	116	1,325	2,608	444
Total		-165	0	79,125	3,258	3,255	37,105	40,684	5,092
Mean cfs		---	0	2,826	116	116	1,325	1,453	182
Acre-feet		-165	0	156,945	6,463	6,456	73,597	80,696	10,102

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Pump In of Non-Project Water (0 AF @ Lat.7L) and Flood Water (0 AF) is included in the gain or loss.

3/ Includes 1,382 AF AG & 1 AF M&I to Pacheco W.D., 68 AF to the City of Dos Palos, and 5,012 AF to San Luis Water District.

4/ Includes 50 AF to the City of Huron, 166 AF to the City of Avenal, 423 AF to the City of Coalinga, 3 AF Phase I Water at 3R in Pool 15, 2 AF of Phase I water at 4R in pool 16, 72,952 AF to WWD., and 1 AF to Broadview W.D.

5/ Daily values are averaged to include deliveries from February 1 through March 3.

Table 21. San Joaquin Field Division Plant Data

(in acre-feet)

February 2003

23

Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
1	129	129	61	56	63	2,464	2,706	2,572	2,566
2	141	141	73	69	79	2,839	3,131	3,076	3,089
3	81	81	45	42	47	1,716	2,034	1,947	2,010
4	132	132	65	59	67	1,927	2,037	1,923	1,988
5	154	154	77	72	81	2,001	2,125	1,965	1,999
6	147	147	64	60	65	1,817	1,893	1,789	1,849
7	177	177	60	55	62	1,762	1,868	1,789	1,822
8	303	303	67	63	69	2,128	2,290	2,205	2,125
9	131	131	91	84	94	2,111	2,421	2,209	2,209
10	143	143	46	44	49	1,836	2,237	1,886	1,849
11	245	245	57	53	60	1,980	2,103	1,932	1,964
12	228	228	57	52	58	1,710	1,824	1,758	1,827
13	211	211	48	45	48	1,534	1,616	1,604	1,645
14	183	183	52	48	56	1,337	1,428	1,287	1,306
15	240	240	69	64	70	1,109	1,164	1,092	1,118
16	151	151	80	73	83	1,003	1,085	1,028	1,094
17	122	122	52	48	53	1,056	1,187	1,091	1,118
18	107	107	55	51	57	1,001	1,191	1,077	1,173
19	122	122	70	66	71	849	1,109	1,036	1,006
20	107	107	82	76	83	974	1,088	1,060	1,115
21	155	155	69	64	71	1,041	1,141	1,087	1,115
22	134	134	77	71	78	976	1,192	1,063	1,115
23	47	47	46	42	48	1,551	1,693	1,580	1,609
24	93	93	68	63	71	894	1,045	1,004	1,036
25	144	144	67	63	71	1,759	1,988	1,866	1,964
26	193	193	78	74	80	1,778	1,889	1,766	1,795
27	201	201	58	53	59	4,092	4,535	4,261	4,348
28	185	185	41	38	43	4,612	4,899	5,250	4,596
Total	4,406	4,406	1,775	1,648	1,836	49,857	54,919	52,203	52,450

Table 22a. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries

(In acre-feet)

February 2003

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries								
		Beginning and Ending				Entitle-ment	USBR	Agri-cultural Carryover	Other 1/	2001-02 Carryover				
	No.	Structure	Mile											
7	21	Check No. 21	172.40		80,696									
8C	22				Empire West Side Irrig. Dist. TL - A	395	395			871				
					172.66	County of Kings TL - A		106	7					
					175.18	TLBWS D TL-A								
					177.54	DRWD - 1		35	525	93				
					180.64	DRWD - 1B		1,062	1,155					
					180.65	TLBWS D - C								
					182.99	DRWD - 1A		1,182	2					
					183.00	DRWD - 2								
					184.00	Tulare Lake Basin WSD TL - B		681	2,182	1,000				
					184.63	DRWD - Paramount								
31A	8D				184.78	Coastal Branch	2,312	0	0	93				
					Dudley Ridge Water Dist. DRWD - 3	681								
8D					Dudley Ridge Reach 8D Total:	2,405	1,288	0	0	1,871				
					Tulare Lake Basin WSD Total:	3,159								
					Check No. 22	184.82								
					189.69	Kern County Water Agency Lost Hills Water Dist. - 1	1,443	172	1,271	154				
					191.18	Kern County Water Agency Lost Hills Water Dist. - 2	154							
					194.22	Kern County Water Agency Lost Hills Water Dist. - 3	209							
					196.40	Kern County Water Agency Berrenda Mesa - 2	0							
					196.75	Kern County Water Agency Lost Hills Water Dist. - 4	706							
						K.C.W.A. Reach 9 Subtotal:	2,512							
					Check No. 23	197.05		172	0	2,340				
10A	24				201.24	Kern County Water Agency Lost Hills Water Dist. - 7	14	14	22	229				
					202.05	Kern County Water Agency Lost Hills Water Dist. - 5	22							
					204.69	Kern County Water Agency Lost Hills Water Dist. - 6	0							
					205.26	Kern County Water Agency Lost Hills Water Dist. - 8	1							
					Check No. 24	207.94								
					209.71	Kern County Water Agency Belridge Water Storage Dist. - 1A	229	1	2,139	2,235				
					209.78	Kern National Wildlife Refuge USBR BV-1B	2,139							
						Kern County Water Agency Buena Vista WSD 1B	2,235							
					209.80	KCWA Semitropic WSD	8,771			8,771				
						KCWA Semitropic WSD Penstocks	11,963			7,641				
						USBR Total:	2,139	0	2,139	4,322				
						K.C.W.A. Reach 10A Subtotal:	23,235	15	0	6,808				
										16,412				
										0				

1/ This carryover water was transferred from various sources for storage in Semi Tropic. The total includes 700 AF from Alameda County WD, 2,700 AF from Alameda County FC&WCD Z-7, and CVP exchanged carryover water which includes 4,942 AF from Del Puerto WD, 5,000 AF from San Luis WD, and 3,070 AF from Panoche WD.

Table 22b. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

February 2003

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	Recovery of Pump In	Agri-cultural Carryover	Purchase Pool B	MWD Ent.		
	No.	Structure	Mile									
11B	25	210.75	Kern County Water Agency Belridge - 2	0	82	74	2,662	0	0	0		
		214.11	Kern County Water Agency Belridge - 3	74								
		216.62	Kern County Water Agency Belridge - 4	0								
		217.13	Kern County Water Agency Belridge - 5	2,662								
			Kern County Water Agency Belridge - 5D	82								
		Check No. 25	217.79									
			K.C.W.A. Reach 11B Subtotal:	2,818								
12D	26	219.58	Kern County Water Agency Belridge - 6	0	56	83	0	0	0	0		
			Kern County Water Agency West Kern - 3	139								
			Check No. 26	224.92								
			Kern County Water Agency Buena Vista - 6	0								
12E	27	230.37	Kern County Water Agency Buena Vista - 6	0								
		Check No. 27	231.73									
	28	235.75	Kern County Water Agency Buena Vista - 2	0								
			Kern County WA CVC	0								
			DRWD CVC	0								
			Tulare Co.	0								
		238.04	Lower Tule River	0								
			Fresno Co.	0								
			Pixley ID	0								
			Hacienda	0								
			DWR Wells	0								
		Check No. 28	238.11									
			1/ Arvin Edison Total:	0								
			Reach 12E Subtotal:	0								
13B	29	238.19	Kern Water Bank Inflow	0		716	0	0	0	0		
		241.02	Kern Water Bank Outflow	0								
		242.85	Kern River Intertie (inflow)	0								
		243.09	KCWA Buena Vista WSD - 7	0								
			KCWA Buena Vista WSD - 5	0								
			Kern County Water Agency Buena Vista - 3	716								
		Check No. 29	244.54	Buena Vista WSD								
	30	249.85	Kern County Water Agency Buena Vista - 4	0								
		Buena Vista Pumping Plant	250.99									
			K.C.W.A. Reach 13B Subtotal:	716								
14A	31	254.47	Kern County Water Agency West Kern - 2	0								
		256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	0								

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID, and Pixley ID.

Table 22c. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

February 2003

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	Recovery of Pump In	MWD Ent. Exchange	Exchange	MWD Ent. 1/		
	No.	Structure	Mile									
14A	31	Check No. 31	256.14			23	398	0	0	0		
	32		258.61		Kern County Water Agency Wheeler Ridge-Maricopa - 3							
			260.44		Kern County Water Agency Wheeler Ridge-Maricopa - 4		398					
	Check No. 32		261.72									
	KCWA Reach 14A Subtotal:				421	421	0	0	0	0		
14B	33		264.42		Kern County Water Agency Wheeler Ridge-Maricopa - 5	29	748	0	0	0		
			266.91		Kern County Water Agency Wheeler Ridge-Maricopa - 6							
	Check No. 33		267.36									
	34		270.24		Kern County Water Agency Wheeler Ridge-Maricopa - 7		748					
			271.27									
Reach 14B Total:					1,137	1,137	0	0	0	0		
14C	35		272.39		Kern County Water Agency Wheeler Ridge-Maricopa - 8	344	917	0	0	0		
			276.09		Kern County Water Agency Wheeler Ridge-Maricopa - 9							
			Reach 14C Total:		917	917	0	0	0	0		
15A	36		278.13		Kern County Water Agency Wheeler Ridge-Maricopa - 9A	451	603	0	0	0		
			279.02									
			280.06		Kern County Water Agency Wheeler Ridge-Maricopa - 10							
			Reach 15-A Total:		603	603	0	0	0	0		
	Teerink Pumping Plant		280.36		Kern County Water Agency Wheeler Ridge-Maricopa - 11	0	52,203	0	0	0		
16A	37		282.06									
			283.95									
			285.01		Kern County Water Agency Wheeler Ridge-Maricopa - 12	0	4	0	0	0		
			286.39		Kern County Water Agency Wheeler Ridge-Maricopa - 13A							
	38		287.06		Kern County Water Agency Wheeler Ridge-Maricopa - 13							
			287.09									
	39		287.62		Kern County Water Agency Wheeler Ridge-Maricopa - 13B		11	0	0	0		
			290.21									
17E	40		291.26		Kern County Water Agency Wheeler Ridge-Maricopa - 14	0	28	0	0	0		
			293.07		Kern County Water Agency Wheeler Ridge-Maricopa - 15							
			Kern County Water Agency Tehachapi Cummings CWD		0							
			K.C.W.A. Reach 16A Subtotal:		43	43	0	0	0	0		
	Edmonston Pumping Plant		293.45		52,450							

1/ Semitropic WSD is storing this water for MWD.

Table 23. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

February 2003

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	Recovery of Pump In	MWD Ent.	Agri-cultural Carryover	Other 1/		
	No.	Structure	Mile									
31A	C-1	Coastal Branch Control	0.02		4,406	105						
		Las Perillas Pumping Plant	1.16		4,406							
	C-2		3.79	Green Valley Water District	0							
		Badger Hill Pumping Plant	4.27		4,406							
	C-3	Coastal Check No. 3	7.21									
	C-4		9.34	Castaic Lake WA (Devil's Den WD #1)	105							
		Coastal Check No. 4	9.34									
	C-5	Coastal Check No. 5	12.20									
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	169					169		
			14.83	Kern County Water Agency Berrenda Mesa - 1	2,325					2,325		
				Kern County Water Agency Berrenda Mesa - PO	0							
		Devil's Den Pumping Plant	14.86		1,775							
				K.C.W.A. Reach 31A Subtotal:	2,494	0	0	0	2,494	0		
				K.C.W.A. Total:	34,952	3,446	0	0	15,094	16,412		
33A	C-7	Bluestone Pumping Plant	19.05		1,648	665						
	C-8	Polonio Pass Pumping Plant	26.54		1,836							
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant								
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	1,525							
		Tank Site 2	58.63	Central Coast:	0							
34	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	352	352						
		Energy Dissipater	78.12									
		Lopez T.O.	85.86	SLOCFC & WCD	0							
35	C-12			CCWA Total:	1,017		1,017	0	0	0		
		Guadalupe T.O.	102.70	SBCFC & WCD	0							
		Santa Maria T.O.	107.43	SBCFC & WCD	0							
		So. Cal. Water T.O.	109.20	SBCFC & WCD	0							
38				SBCFC & WCD Total:	0	0	0	0	0	0		
		Tank Site 5	115.42			0						

1/ This carryover water was transferred from various sources for storage in Semi Tropic. The total includes 700 AF from Alameda County WD, 2,700 AF from Alameda County FC&WCD Z-7, and CVP exchanged carryover water which includes 4,942 AF from Del Puerto WD, 5,000 AF from San Luis WD, and 3,070 AF from Panoche WD.

Table 24. Southern Field Division Plant Data

(in acre-feet)

February 2003

Date	West Branch					East Branch								Devil Canyon Powerplant Generation	
	Oso Pumping Plant	Warne Powerplant		Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant					
		Generation	Leakage	Generation	Pumpback	Bypass Through Plant	Cottonwood Chute	Generation		Leakage	Bypass Flume				
1	83	0	0	1,711	3,230	0	15	2,458	2,137	1,979	0	0	0	1,955	
2	0	0	0	624	2,701	0	15	2,955	2,902	2,877	0	0	0	2,053	
3	0	0	0	1,610	1,913	0	15	1,998	1,953	1,948	0	0	0	1,832	
4	97	0	0	1,456	1,553	0	14	1,772	1,817	1,890	0	0	0	1,799	
5	99	0	0	336	589	0	16	1,863	1,685	1,729	0	0	0	1,759	
6	0	0	0	309	0	0	17	1,790	1,701	1,712	0	0	0	1,886	
7	0	0	0	916	1,227	0	15	1,785	1,685	1,708	0	0	0	1,745	
8	0	0	0	219	0	0	16	1,914	1,877	1,858	0	0	0	1,789	
9	0	0	0	262	0	0	19	2,093	2,043	1,926	0	0	0	1,807	
10	97	0	0	886	0	0	16	1,714	1,579	1,644	0	0	0	1,823	
11	0	0	0	457	0	0	16	1,853	1,681	1,689	0	0	0	1,483	
12	0	63	0	480	0	0	18	1,775	1,706	1,339	0	0	0	1,499	
13	0	0	0	903	0	0	0	1,578	1,755	1,847	0	0	0	1,325	
14	0	0	0	3,099	717	0	0	1,289	1,144	915	0	0	0	1,306	
15	0	0	0	366	0	0	0	1,039	1,147	1,469	0	0	0	1,355	
16	0	0	0	273	0	0	0	1,006	1,178	1,059	0	0	0	1,338	
17	0	0	0	60	1,902	0	0	1,020	992	1,032	0	0	0	1,378	
18	0	0	0	2,716	1,503	0	0	1,075	992	1,036	0	0	0	1,400	
19	0	0	0	1,743	1,253	0	0	945	1,122	1,022	0	0	0	1,554	
20	0	0	0	1,140	0	0	0	1,020	992	1,031	0	0	0	1,278	
21	0	0	0	1,646	581	0	18	1,019	992	1,001	0	0	0	1,225	
22	0	0	0	481	1,872	0	17	971	1,023	1,054	0	0	0	1,307	
23	0	0	0	2,243	2,355	0	19	1,512	1,481	1,479	0	0	0	1,272	
24	0	567	0	1,092	523	0	20	985	826	541	0	0	0	1,553	
25	341	264	0	1,353	0	0	22	1,462	1,386	1,180	0	0	0	1,395	
26	0	0	0	1,928	371	0	19	1,667	1,498	1,660	0	0	0	1,766	
27	2,448	3,026	0	2,898	0	0	15	1,847	1,788	1,875	0	0	0	2,167	
28	2,614	3,065	0	2,835	931	0	13	1,939	1,824	1,732	0	0	0	2,504	
Total	5,779	6,985	0	34,042	23,221	0	335	44,344	42,906	42,232	0	0	0	45,553	

Table 25. Pyramid Lake
Daily Operation

Capacity: 171,200 ac-ft

(in acre-feet except as noted)

February 2003

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow			Computed Losses (-) And Gains (+)	
				Project		Natural	Project		Natural		
				Castaic Powerplant Pumpback	Warne Powerplant	Stream Flow	Castaic Powerplant Generation	Recreation Deliveries	To Piru Creek		
Jan 31	2573.56	164,232									
1	2574.72	165,701	1,469	3,230	0	21	1,711	0	12	-59	
2	2576.26	167,664	1,963	2,701	0	21	624	0	12	-123	
3	2576.44	167,895	231	1,913	0	21	1,610	0	12	-81	
4	2576.58	168,074	179	1,553	0	21	1,456	0	12	73	
5	2576.78	168,331	257	589	0	21	336	0	12	-5	
6	2576.52	167,997	-334	0	0	20	309	0	12	-33	
7	2576.78	168,331	334	1,227	0	20	916	0	12	15	
8	2576.56	168,049	-282	0	0	20	219	0	12	-71	
9	2576.33	167,754	-295	0	0	20	262	0	12	-41	
10	2575.62	166,847	-907	0	0	20	886	0	12	-29	
11	2575.32	166,464	-383	0	0	40	457	0	12	46	
12	2576.78	168,331	1,867	0	63	1,457	480	0	12	839	
13	2576.83	168,395	64	0	0	918	903	0	12	61	
14	2575.10	166,184	-2,211	717	0	291	3,099	0	12	-108	
15	2574.93	165,968	-216	0	0	164	366	0	12	-2	
16	2574.80	165,803	-165	0	0	113	273	0	12	7	
17	2576.40	167,844	2,041	1,902	0	87	60	0	12	124	
18	2575.45	166,630	-1,214	1,503	0	71	2,716	1	12	-59	
19	2575.12	166,210	-420	1,253	0	60	1,743	0	12	22	
20	2574.22	165,067	-1,143	0	0	55	1,140	0	12	-46	
21	2573.40	164,030	-1,037	581	0	50	1,646	0	12	-10	
22	2574.54	165,473	1,443	1,872	0	46	481	0	12	18	
23	2574.59	165,536	63	2,355	0	41	2,243	0	12	-78	
24	2574.77	165,765	229	523	567	74	1,092	0	13	170	
25	2573.97	164,750	-1,015	0	264	128	1,353	0	13	-41	
26	2572.77	163,237	-1,513	371	0	81	1,928	0	13	-24	
27	2572.87	163,363	126	0	3,026	70	2,898	0	13	-59	
28	2573.80	164,535	1,172	931	3,065	58	2,835	0	13	-34	
Total				303	23,221	6,985	4,009	34,042	1	341	472

Table 26. Elderberry Forebay

Daily Operation

(in acre-feet except as noted)

Capacity: 32,476 ac-ft

February 2003

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				Castaic Powerplant Generation	Natural	Castaic Powerplant Pumpback	To Castaic Lake			
							Natural	Project		
Jan 31	1516.04	21,584								
1	1512.34	20,096	-1,488	1,711	0	3,230	0	0	31	
2	1506.23	17,762	-2,334	624	0	2,701	0	0	-257	
3	1506.21	17,754	-8	1,610	0	1,913	0	0	295	
4	1505.70	17,566	-188	1,456	0	1,553	0	0	-91	
5	1504.90	17,273	-293	336	0	589	0	0	-40	
6	1505.96	17,662	389	309	0	0	0	0	80	
7	1505.21	17,386	-276	916	0	1,227	0	0	35	
8	1505.76	17,588	202	219	0	0	0	0	-17	
9	1506.56	17,884	296	262	0	0	0	0	34	
10	1508.88	18,756	872	886	0	0	0	0	-14	
11	1510.10	19,223	467	457	3	0	2	0	9	
12	1511.85	19,903	680	480	129	0	129	0	200	
13	1506.41	17,829	-2,074	903	119	0	119	2,806	-171	
14	1512.61	20,202	2,373	3,099	38	717	38	0	-9	
15	1513.51	20,560	358	366	25	0	25	0	-8	
16	1514.20	20,837	277	273	19	0	19	0	4	
17	1509.06	18,824	-2,013	60	16	1,902	16	0	-171	
18	1508.85	18,744	-80	2,716	13	1,503	13	1,182	-111	
19	1510.18	19,254	510	1,743	12	1,253	12	0	20	
20	1512.91	20,321	1,067	1,140	11	0	11	0	-73	
21	1515.48	21,356	1,035	1,646	10	581	11	0	-29	
22	1512.09	19,997	-1,359	481	10	1,872	9	0	31	
23	1511.81	19,887	-110	2,243	9	2,355	9	0	2	
24	1513.30	20,476	589	1,092	9	523	9	0	20	
25	1511.36	19,711	-765	1,353	30	0	30	2,087	-31	
26	1515.25	21,262	1,551	1,928	19	371	19	0	-6	
27	1514.80	21,079	-183	2,898	14	0	14	3,060	-21	
28	1511.79	19,879	-1,200	2,835	13	931	14	3,106	3	
Total			-1,705	34,042	499	23,221	499	12,241	-285	

Table 27. Castaic Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

February 2003

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow		Computed Losses (-) And Gains (+)	
				From Elderberry Forebay		Natural	Deliveries		
				Natural	Project				
Jan 31	1494.80	280,386							
1	1493.79	278,316	-2,070	0	0	3	2,096	0	
2	1492.83	276,357	-1,959	0	0	3	1,959	0	
3	1491.86	274,386	-1,971	0	0	3	1,899	0	
4	1490.84	272,322	-2,064	0	0	3	2,153	0	
5	1489.77	270,168	-2,154	0	0	3	2,102	0	
6	1488.79	268,200	-1,968	0	0	2	1,959	0	
7	1487.79	266,199	-2,001	0	0	2	1,970	0	
8	1486.81	264,246	-1,953	0	0	2	1,998	0	
9	1485.82	262,282	-1,964	0	0	2	1,975	0	
10	1484.79	260,246	-2,036	0	0	2	2,009	0	
11	1483.85	258,396	-1,850	3	0	3	2,032	0	
12	1483.45	257,611	-785	129	0	103	1,603	0	
13	1484.38	259,438	1,827	119	2,806	117	1,442	21	
14	1483.66	258,023	-1,415	38	0	34	1,427	23	
15	1482.93	256,592	-1,431	25	0	21	1,433	22	
16	1482.36	255,478	-1,114	19	0	17	1,200	0	
17	1481.67	254,133	-1,345	16	0	15	1,365	0	
18	1481.55	253,900	-233	13	1,182	13	1,505	0	
19	1480.87	252,578	-1,322	12	0	10	1,371	0	
20	1480.17	251,222	-1,356	11	0	8	1,356	0	
21	1479.46	249,851	-1,371	10	0	7	1,378	0	
22	1478.70	248,387	-1,464	10	0	6	1,532	0	
23	1477.89	246,833	-1,554	9	0	6	1,576	0	
24	1477.17	245,455	-1,378	9	0	6	1,501	0	
25	1477.68	246,431	976	30	2,087	20	1,332	0	
26	1477.02	245,169	-1,262	19	0	14	1,264	0	
27	1477.95	246,948	1,779	14	3,060	11	1,313	0	
28	1478.88	248,734	1,786	13	3,106	10	1,307	0	
Total			-31,652	499	12,241	446	46,057	66	
								1,285	

Table 28. Governor Edmund G. Brown California Aqueduct
 Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

February 2003

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	Rec.	Flexible Withdrawal	Other Water	Table A Special Carryover		
	No.	Structure	Mile									
29A	42	Oso Pumping Plant	1.49		5,779							
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Re-moved	1	1					
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub							
		Warne Power Plant	14.07		6,985							
29H	W3	Pyramid Lake		Calif. State Park Pyramid Recreation	1	154	0	9,899	31,846	2,227 1,354 577		
			14.10	United Water Conservation Dist.	0							
		Pyramid Dam	17.10	Piru Creek Fish Enhancement	0							
		Castaic Power Plant	25.82	(23,221 AF pumpback)	34,042							
29J	W4	Elderberry Forebay				154	0	41,745	0	4,158		
		Forebay Dam	28.12									
30 1/	W5	Castaic Lake		Calif. State Park Castaic Lake Recreation	0	154	0	41,745	0	4,158		
		Castaic Dam	31.47									
		Castaic Lake Outlet	31.55	MWD - 78"	9,899							
				MWD - 132"	34,073							
				Castaic Lake WA - T1	1,354							
				Castaic Lake WA	0							
				United Water Conservation Dist.	0							
				MWD - Ventura County FCD	154							
				LA Co. Parks & Recreation	0							
				Releases to Lagoon	66							
				Reach 30 Subtotal:	46,057							
	W6	Castaic Lagoon		Recreation to Lagoon	0							
		Castaic Lagoon Outlet	31.87									

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

2/ Water transferred from San Bernardino WD to MWD.

Table 29. Silverwood Lake

Daily Operation
(in acre-feet except as noted)

Capacity: 74,970 ac-ft

February 2003

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow				Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/
							Delivered to CLAWA	Rec.	San Bernardino Tunnel	Del. To Mojave W.A.		
Jan 31	3350.87	70,998										
1	3350.93	71,055	57	1,979	0	2	4	0	1,955	0	0	35
2	3351.82	71,901	846	2,877	0	2	4	0	2,053	0	1	25
3	3352.05	72,121	220	1,948	0	2	4	0	1,832	0	0	106
4	3352.17	72,235	114	1,890	0	2	6	0	1,799	0	1	28
5	3352.05	72,121	-114	1,729	0	1	7	0	1,759	0	1	-77
6	3351.82	71,901	-220	1,712	0	1	4	0	1,886	0	1	-42
7	3351.74	71,825	-76	1,708	0	1	6	0	1,745	0	0	-34
8	3351.78	71,863	38	1,858	0	1	6	0	1,789	0	1	-25
9	3352.05	72,121	258	1,926	0	1	6	0	1,807	0	0	144
10	3351.90	71,977	-144	1,644	0	1	5	0	1,823	0	1	40
11	3352.09	72,159	182	1,689	0	11	4	0	1,483	0	0	-31
12	3352.52	72,571	412	1,339	0	115	3	1	1,499	0	1	462
13	3353.60	73,610	1,039	1,847	0	322	4	0	1,325	0	0	199
14	3353.35	73,369	-241	915	0	143	4	0	1,306	0	1	12
15	3353.59	73,600	231	1,469	0	60	4	0	1,355	0	54	115
16	3353.25	73,272	-328	1,059	0	37	4	0	1,338	0	36	-46
17	3352.92	72,955	-317	1,032	0	27	4	0	1,378	0	0	6
18	3352.50	72,551	-404	1,036	0	21	4	0	1,400	0	1	-56
19	3352.01	72,083	-468	1,022	0	18	5	0	1,554	0	0	51
20	3351.74	71,825	-258	1,031	0	16	4	0	1,278	0	1	-22
21	3351.57	71,663	-162	1,001	0	14	4	0	1,225	0	0	52
22	3351.32	71,425	-238	1,054	0	12	4	0	1,307	0	1	8
23	3351.59	71,682	257	1,479	0	11	4	1	1,272	0	0	44
24	3350.46	70,610	-1,072	541	0	11	4	0	1,553	0	1	-66
25	3350.39	70,544	-66	1,180	0	47	4	0	1,395	0	0	106
26	3350.50	70,648	104	1,660	0	56	4	0	1,766	0	1	159
27	3350.27	70,431	-217	1,875	0	98	3	0	2,167	0	1	-19
28	3349.57	69,772	-659	1,732	0	66	3	0	2,504	0	1	51
Total				-1,226	42,232	0	1,099	122	2	45,553	0	105
												325

1/ Project water delivered from Mojave Siphon in exchange for like amount of Natural Streamflow.

Table 30. Lake Perris

Daily Operation
(in acre-feet except as noted)

Capacity: 131,452 ac-ft

February 2003

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Jan 31	1584.37	118,625				
1	1584.23	118,312	-313			
2	1584.11	118,044	-268			
3	1583.93	117,643	-401			
4	1583.71	117,154	-489			
5	1583.50	116,687	-467			
6	1583.42	116,509	-178			
7	1583.15	115,911	-598			
8	1582.95	115,468	-443			
9	1582.83	115,203	-265			
10	1582.69	114,893	-310			
11	1582.58	114,651	-242			
12	1582.45	114,364	-287			
13	1582.53	114,540	176			
14	1582.54	114,562	22			
15	1582.52	114,518	-44			
16	1582.28	113,990	-528			
17	1582.25	113,924	-66			
18	1582.19	113,792	-132			
19	1582.25	113,924	132			
20	1582.10	113,594	-330			
21	1581.96	113,286	-308			
22	1581.82	112,979	-307			
23	1581.69	112,693	-286			
24	1581.57	112,430	-263			
25	1581.60	112,496	66			
26	1581.79	112,913	417			
27	1582.07	113,528	615			
28	1582.38	114,210	682			
Total			-4,415	4,883	9,146	-152

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at lake Perris.

Table 31a. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (East Branch)

(In acre-feet)

February 2003

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries									
	Beginning and Ending					Entitlement	Rec.	Transfer	2001-02 Carryover	Transfer Local Out					
	No.	Structure	Mile												
17E	40	Edmonston Pumping Plant	293.45		52,450										
	41		298.65			Kern County Water Agency Tej.-Cas		Stub							
17F		Check No. 41	303.41												
18A	42	Check No. 42	304.99												
19	43	Alamo Powerplant	305.73	(Does not include 44,344 AF flow down Cottonwood Chute)		0									
			308.05	Antelope Valley-East Kern WA											
		Check No. 43	309.70												
	44		311.84	LADWP Connection		0									
			313.50	AVEK 245th Street West											
	Check No. 44		314.81												
	45		314.93	AVEK 235th Street West		0									
			315.57	AVEK 225th Street West											
	Check No. 45		319.74												
	46		323.19	Antelope Valley-East Kern WA Fairmont		360			38	322					
			323.84												
				Reach 19 Total:	360	0	0	38	322	0					
20A	47	Check No. 47	326.77												
	48		326.91	Antelope Valley-East Kern WA Willow Springs Siphon		25				25					
			329.65	Antelope Valley-East Kern WA 120th Street West											
		Check No. 48	330.82												
	49	Check No. 49	335.93												
20B	50		336.73	AVEK WA - Quartz Hill (Wheeled for Palmdale WD)		0				1,440					
				Antelope Valley-East Kern WA											
			339.68	Antelope Valley-East Kern WA											
	Check No. 50		341.51												
	51	Check No. 51	342.07												
20B	52		342.80	Antelope Valley-East Kern WA 30th Street West		Not in Use				565					
		Check No. 52	343.74												
	53		346.98	PWD Palmdale		565				60					
			348.14	Antelope Valley-East Kern WA Acton Treatment Plant											
21	Check No. 53		348.17												
	54	Check No. 54	350.25												
22A	55	Check No. 55	352.70												
	56	Check No. 56	354.76												
22A			354.97	Littlerock Creek I.D.		0				10					
	57	Check No. 57	356.93												
	58		357.60	Antelope Valley-East Kern WA											
			357.72	Antelope Valley-East Kern WA 96th Street East											
			359.82	Antelope Valley-East Kern WA East Side Treatment Plant											

Table 31b. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (East Branch, Continued)

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	February 2003						
	Beginning and Ending					Entitlement	Rec	Deliveries				
	No.	Structure	Mile					Flexible Withdrawal	Other Water 1/	Table A Special Carryover		
22B	58	Pearblossom Pumping Plant	360.61		42,906	24	2					
	59	Check No. 59	366.09									
	60		366.50	Antelope Valley-East Kern WA	0					113		
		Check No. 60	373.94							200		
	61	Check No. 61	379.00							320		
	62	Check No. 62	384.26									
	63	Check No. 63	389.20	Mojave Water Agency Mojave River	113							
			394.60	Mojave Water Agency Temporary	200							
	64	Check No. 64	395.10									
	65	Check No. 65	400.32									
	66		401.10	Mojave Water Agency Morongo 24" and 42"	320							
				Mojave Water Agency Hesperia	0							
		Check No. 66	403.41									
23	67	Mojave Siphon	405.48	Las Flores Ranch	325					325		
		Mojave Siphon Powerplant	405.65		42,232							
24		Silverwood Lake	407.65	Crestline Lake Arrowhead Water Agency	122							
				Calif. State Park Silverwood Agency (Rec.)	2							
25	67	San Bernardino Tunnel	411.46		45,553							
				San Gorgonio Pass Water Agency	0							
		Devil Canyon Powerplant	412.73		45,553							
26A		Devil Canyon Afterbay Control Structures	412.88	MWD-SC Rialto	33,860					20,997		
				Desert Water Agency (MWD Wheeling Exchange)	0							
				San Gabriel Valley Water District	0							
				Coachella Valley WD (MWD Wheeling Exchange)	0							
				San Bernardino Valley MWD 24" and 72"	588							
				San Bernardino Valley MWD 48"	9							
				MWD (SBVMWD Exchange)	1,226							
28G	69	Santa Ana Valley Pipeline	425.46									
28H			433.06	MWD-SC Box Springs	5,837							
			440.05	MWD-SC Perris Bypass Pipeline	265							
28J		Lake Perris	442.00	MWD-SC 18"	0							
			443.44	MWD-SC 54"	3,397							
				MWD-SC 78"	5,484							
				Calif. State Park Lake Perris Recreation	0							
				MWD Total:	94,772	154	0	50,026	20,997	23,595		

1/ Includes 15,309 AF of EWA water and 5,688 of Arvin Edison water bank recovery.

Table 32. Water Quality At Selected SWP Locations

February 2003

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Banks Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct				Devil Canyon Afterbay Near San Bernardino
						O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	
Alkalinity	mg/l as CaCO ₃	40	84	73	78	79	83	83	89.5	89
Antimony	mg/l	NR	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NR	NR
Arsenic	mg/l	<0.001	0.002	0.001	0.001	0.001	0.001	0.003	0.002	0.002
Beryllium	mg/l	NR	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2
Bromide	mg/l	NR	0.03	0.08	0.11	0.11	0.15	0.18	0.20	0.26
Calcium	mg/l	8	12	18	19	21	23	29	28	25
Carbon - Dissolved Organic	mg/l as C	NR	13	4	5	4	4	3	3	3
Carbon - Total Organic	mg/l as C	NR	13	4	4	4	4	3	3	3
Chloride	mg/l	<1	19	29	42	42	51	54	62	81
Chromium	mg/l	0.003	0.005	0.005	0.005	0.005	0.004	0.003	0.004	0.005
Copper	mg/l	<0.001	0.005	0.002	0.002	0.002	0.002	0.002	0.002	0.003
Fluoride	mg/l	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.1	0.1
Hardness	mg/l as CaCO ₃	36	71	86	93	102	111	104.5	115.5	116
Iron	mg/l	0.010	0.143	0.065	0.035	0.024	0.021	0.015	0.005	<0.005
Lead	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	4	10	10	11	12	13	8	11	13
Manganese	mg/l	<0.005	0.026	0.015	<0.005	0.005	<0.005	<0.005	<0.005	<0.005
Nitrate + Nitrite	mg/l as N	0.09	0.11	0.62	NR	NR	0.91	NR	1.60	1.30
Phosphorus-Ortho	mg/l as P	<0.01	0.09	0.06	NR	NR	0.07	NR	0.07	0.06
Phosphorus-Total	mg/l	0.01	0.23	0.11	NR	NR	0.09	NR	0.09	0.06
Selenium	mg/l	NR	<0.001	<0.001	NR	NR	NR	0.001	NR	NR
Sodium	mg/l	3	29	23	29	34	40.5	47.5	51.5	59
Specific Conductance	µS/cm	86	260	291	368	370	428	454	478	537
Sulfate	mg/l	2	16	26	38	40	46	50.5	49.5	45
Total Dissolved Solids	mg/l	53	164	175	221	222	258.75	273	290.5	323
Turbidity	NTU	5	57	19	19	8	8.5	4.5	4	1
Zinc	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

mg/l milligrams per liter

µg/l micrograms per liter

µS/cm microSiemens per centimeter

NR - Not Reported

NTU - nephelometric turbidity units

Table 33. Water Quality At Selected Delta Stations

February 2003

Date	Tides (feet above mean sea level)		Flow In CFS		Electrical Conductivity in milliSiemens/cm								Cl in mg/l		
			Net Delta Outflow Index		Rio Vista	Antioch	Chipps island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal	
	(Antioch) Daily Mean		Mean Daily	Monthly Average				md	md	md	14dm	md	14dm	md	md
	Hi	Half						md	md	md	14dm	md	14dm	md	md
1	3.75	1.51	37,721	37,721	37,997	0.18	0.13	0.17	0.22	0.19	0.18	0.30	0.94	0.51	174
2	3.17	1.25	34,676	36,198	35,824	0.18	0.00	0.17	0.21	0.18	0.18	0.28	0.95	0.51	173
3	2.81	1.04	32,197	34,865	33,953	0.17	0.00	0.16	0.21	0.18	0.18	0.30	0.94	0.56	162
4	2.20	0.00	30,291	33,721	31,933	0.17	0.00	0.17	0.21	0.18	0.18	0.30	0.94	0.54	165
5	0.00	0.00	28,068	32,591	29,742	0.17	0.00	0.17	0.20	0.19	0.18	0.60	0.95	0.58	168
6	1.68	0.00	25,300	31,376	27,704	0.19	0.00	0.17	0.20	0.19	0.18	0.60	0.96	0.59	171
7	2.36	0.79	23,256	30,216	25,818	0.19	0.00	0.18	0.19	0.19	0.18	0.30	0.95	0.61	175
8	2.53	0.85	20,643	29,019	24,052	0.19	0.19	0.18	0.19	0.19	0.18	0.30	0.95	0.58	176
9	2.49	0.77	18,886	27,893	22,629	0.19	0.29	0.19	0.19	0.19	0.18	0.30	0.94	0.54	182
10	2.62	0.83	17,170	26,821	21,698	0.19	0.81	0.19	0.18	0.19	0.19	0.30	0.94	0.50	179
11	3.14	1.19	15,863	25,825	21,435	0.26	2.16	0.20	0.18	0.20	0.19	0.30	0.94	0.47	174
12	3.42	1.46	15,645	24,976	22,489	0.47	3.37	0.20	0.18	0.20	0.19	0.30	0.95	0.48	171
13	3.85	1.82	19,535	24,558	26,866	0.67	4.04	0.20	0.18	0.22	0.19	0.30	0.55	0.48	153
14	3.83	1.69	31,056	25,022	29,433	0.60	3.38	0.20	0.18	0.22	0.19	0.30	0.56	0.43	151
15	3.75	1.58	34,306	25,641	31,075	0.44	1.96	0.19	0.18	0.21	0.20	0.30	0.63	0.56	137
16	3.70	1.59	28,803	25,838	32,756	0.39	1.32	0.18	0.18	0.21	0.20	0.30	0.46	0.54	137
17	3.41	1.30	33,402	26,283	36,112	0.32	0.70	0.17	0.19	0.21	0.20	0.30	0.44	0.57	127
18	3.12	1.17	33,783	26,700	39,087	0.28	0.43	0.16	0.18	0.21	0.20	0.30	0.57	0.56	120
19	2.95	1.14	37,921	27,291	39,013	0.26	0.31	0.16	0.18	0.21	0.20	0.30	0.69	0.54	122
20	2.68	1.02	38,397	27,846	37,664	0.23	0.21	0.15	0.18	0.21	0.20	0.30	0.80	0.58	120
21	2.66	0.77	36,689	28,267	36,659	0.21	0.18	0.15	0.18	0.20	0.21	0.30	0.86	0.60	124
22	2.98	0.88	32,858	28,476	34,830	0.20	0.17	0.15	0.18	0.20	0.21	0.30	0.90	0.51	97
23	3.30	1.22	31,420	28,604	33,795	0.19	0.16	0.16	0.18	0.20	0.21	0.30	0.93	0.48	97
24	3.72	1.62	30,171	28,669	32,692	0.18	0.18	0.16	0.17	0.21	0.21	0.30	0.94	0.45	94
25	3.76	1.74	28,427	28,659	31,283	0.17	0.19	0.16	0.17	0.21	0.21	0.30	0.95	0.46	94
26	3.60	1.70	30,518	28,731	29,711	0.17	0.19	0.16	0.17	0.21	0.21	0.30	0.95	0.44	83
27	3.48	1.55	29,671	28,766	27,677	0.15	0.16	0.16	0.17	0.20	0.21	0.30	0.96	0.47	83
28	3.24	1.26	25,218	28,639	25,227	0.16	0.15	0.16	0.16	0.20	0.21	0.30	0.97	0.53	77

Clifton Court Cl(mg/l)=200X EC - 25

e = Estimated

N.R. = No Record.

N.C. = Not computed due to insufficient data.

f = Excess Delta conditions with fish concerns.

r = Excess delta conditions with export/inflow ratio concerns.

dm = Daily Mean

s = Balanced water conditions with storage withdrawals.

md = Mean Daily

Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP

February 2003

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	September 18, 2002 September 18, 2002 September 18, 2002	2,4-D Styrene 2,4-Dichlorophenylacetic acid (DCAA)	0.32 0.7 0.99
California Aqueduct At Banks Pumping Plant	September 18, 2002 September 18, 2002 September 18, 2002	2,4-D Styrene 2,4-Dichlorophenylacetic acid (DCAA)	0.22 0.8 0.89
O'Niell Forebay Outlet Check 13	September 18, 2002 September 18, 2002	2,4-Dichlorophenylacetic acid (DCAA) 2,4-D	0.87 0.17
Delta Mendota Canal At McCabe Road	September 18, 2002 September 18, 2002	2,4-D 2,4-Dichlorophenylacetic acid (DCAA)	0.18 0.96
California Aqueduct Near Kettleman City (Check 21)	September 17, 2002 September 17, 2002	2,4-Dichlorophenylacetic acid (DCAA) 2,4-D	0.97 0.11
California Aqueduct At Near Highway 119 (Check 29)	September 24, 2002 September 24, 2002	2,4-Dichlorophenylacetic acid (DCAA) 2,4-D	1.00 0.11
California Aqueduct At Tehachapi Afterbay (Check 41)	September 18, 2002 September 18, 2002	2,4-Dichlorophenylacetic acid (DCAA) Chlorpyrifos	0.83 0.1

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

Table 35. Oroville and Delta Field Divisions Energy Data

(in kWh)

February 2003

Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load
	Generation	Load			Total Load	SWP Load		
1	24,768	1,440	10,199	18,326	3,993,792	3,993,792	11,065	111
2	598,752	2,782,368	9,513	20,517	3,966,528	3,966,528	11,955	114
3	1,694,016	1,553,472	14,273	23,303	3,981,888	3,981,888	11,190	299
4	1,886,688	3,744	13,727	20,482	3,859,584	3,859,584	11,710	372
5	1,774,368	1,503,072	13,447	21,245	3,968,640	3,968,640	12,780	364
6	1,764,288	1,251,936	14,077	21,896	4,016,256	4,016,256	48,505	351
7	2,490,336	0	11,760	20,307	4,111,488	4,111,488	198,085	309
8	1,021,824	0	8,841	22,155	4,115,712	4,115,712	290,895	268
9	1,543,392	576	8,092	21,112	4,055,808	4,055,808	282,960	269
10	2,884,608	1,498,464	8,435	20,314	4,078,848	4,078,848	291,545	450
11	6,374,880	0	9,800	24,773	4,023,360	4,023,360	290,955	438
12	7,479,360	0	8,022	20,398	4,015,680	4,015,680	291,800	286
13	9,342,720	0	9,149	20,503	3,983,424	3,983,424	291,905	343
14	8,093,664	0	8,148	19,761	307,392	307,392	286,620	329
15	4,167,360	0	7,427	19,110	286,656	286,656	286,755	259
16	7,401,888	0	8,183	21,644	4,274,688	4,274,688	291,555	256
17	8,631,360	0	8,120	21,588	4,013,184	4,013,184	291,315	259
18	9,121,536	0	10,374	22,379	4,003,008	4,003,008	290,890	305
19	9,042,912	0	11,522	24,199	3,978,432	3,978,432	291,025	320
20	9,110,880	0	9,891	20,692	3,987,648	3,987,648	290,915	329
21	11,151,072	0	11,515	25,753	3,996,480	3,996,480	290,550	390
22	8,613,504	0	9,891	24,472	4,010,880	4,010,880	290,680	203
23	4,729,824	0	10,241	24,339	4,003,008	4,003,008	291,755	203
24	11,120,544	0	9,499	21,665	4,038,720	4,038,720	291,300	222
25	11,389,248	0	12,117	25,746	3,989,568	3,989,568	291,640	402
26	4,633,056	0	10,997	26,544	2,217,408	2,217,408	289,270	177
27	7,796,448	2,880	10,857	22,841	1,664,256	1,664,256	288,190	0
28	7,594,848	4,032	10,206	22,638	2,529,792	2,529,792	289,455	280
Total	161,478,144	8,601,984	288,323	618,702	99,472,128	99,472,128	6,397,265	7,908

Table 36. San Luis Field Division Energy Data

(in kWh)

February 2003

Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	832,176	445,176	0	0	4,161,888	1,779,888
2	988,704	604,704	0	0	5,629,536	2,473,536
3	813,456	426,456	0	0	3,862,368	869,368
4	791,136	308,136	0	0	4,962,816	2,073,816
5	915,552	432,552	0	0	4,763,808	2,218,808
6	981,648	498,648	0	0	4,184,928	2,069,928
7	1,066,752	583,752	0	0	3,884,544	2,944,544
8	1,115,136	632,136	0	0	4,129,632	2,980,632
9	915,408	435,408	0	0	5,850,720	2,730,720
10	899,712	416,712	0	0	3,516,768	2,148,768
11	996,192	513,192	0	0	4,224,960	3,738,960
12	892,080	409,080	0	0	2,171,520	1,307,520
13	631,584	148,584	0	0	3,947,904	3,461,904
14	446,544	67,544	0	0	2,572,992	2,086,992
15	593,712	110,712	0	0	592,416	214,416
16	583,776	103,776	0	0	4,757,184	3,461,184
17	524,880	41,880	0	0	4,170,240	3,106,240
18	618,480	135,480	0	0	4,002,048	2,938,048
19	585,936	102,936	0	0	4,589,568	3,525,568
20	514,368	31,368	0	0	4,646,592	4,646,592
21	548,496	161,496	0	0	3,912,192	3,912,192
22	633,312	246,312	0	0	4,982,688	4,982,688
23	760,896	376,896	0	0	5,696,064	5,696,064
24	571,680	184,680	0	0	1,867,968	1,867,968
25	735,840	348,840	0	0	3,880,800	3,880,800
26	551,088	164,088	0	0	2,631,168	1,677,168
27	960,048	573,048	0	0	1,923,840	969,840
28	972,288	585,288	0	0	2,373,408	1,419,408
Total	21,440,880	9,088,880	0	0	107,890,560	75,183,560

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

Table 37. San Joaquin Field Division Pumping Plant Energy Load Data

(in kWh)

February 2003

Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devils Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	9,212	23,560	44,406	41,940	44,874	593,784	712,152	1,581,984	5,726,160
2	10,358	27,424	53,460	50,652	55,890	683,712	848,448	1,898,496	6,993,360
3	6,294	15,240	33,750	31,806	33,696	419,184	547,920	1,220,832	4,504,320
4	9,994	25,072	47,088	44,298	48,312	469,512	542,520	1,207,872	4,460,400
5	12,424	33,544	55,710	53,082	57,294	483,192	568,872	1,238,976	4,581,360
6	11,778	31,776	46,656	44,586	46,458	438,984	505,872	1,118,880	4,096,800
7	13,402	37,616	43,866	41,184	44,532	428,184	503,640	1,107,360	4,097,520
8	22,410	61,192	48,906	46,368	49,536	523,584	600,336	1,302,912	4,777,920
9	10,460	28,464	65,952	61,506	66,834	511,488	624,384	1,361,376	4,959,360
10	10,904	27,952	35,622	33,282	35,730	450,360	580,248	1,173,312	4,152,960
11	17,800	49,168	41,472	40,140	43,254	475,920	549,504	1,184,832	4,401,360
12	18,690	53,056	41,724	39,402	42,120	419,112	483,840	1,089,216	4,103,280
13	15,314	44,648	35,694	33,966	36,504	372,888	424,008	994,176	3,688,560
14	13,896	38,888	38,844	36,252	40,374	331,704	380,016	823,392	2,941,920
15	18,082	49,952	49,770	47,664	50,148	270,576	315,000	711,360	2,519,280
16	11,534	30,776	58,230	54,540	59,310	249,264	296,928	681,696	2,468,880
17	9,110	23,240	38,016	35,874	38,160	257,688	316,152	700,704	2,527,200
18	8,024	20,880	40,140	38,052	41,436	247,824	315,288	700,704	2,655,360
19	9,378	23,528	50,886	48,600	52,254	196,128	294,768	657,504	2,283,840
20	8,832	23,944	58,302	55,969	59,240	239,256	293,616	685,152	2,527,200
21	11,356	28,784	50,274	47,484	50,850	254,592	305,208	696,672	2,525,040
22	10,428	28,264	55,620	52,668	55,962	243,072	323,352	689,184	2,525,040
23	4,002	9,648	34,362	32,256	34,884	377,136	448,776	980,064	3,611,520
24	7,458	18,328	49,752	46,746	50,724	222,624	279,072	644,832	2,332,080
25	10,614	28,248	49,140	46,818	50,526	425,520	528,120	1,173,312	4,259,520
26	14,724	38,816	56,772	54,072	56,718	436,176	501,048	1,109,376	4,096,800
27	14,984	38,672	42,138	39,942	42,282	975,024	1,167,552	2,615,328	9,821,520
28	14,714	40,160	30,708	28,764	31,428	1,116,072	1,269,648	2,820,960	10,373,040
Total	336,176	900,840	1,297,260	1,227,913	1,319,330	12,112,560	14,526,288	32,170,464	118,011,600

Table 38. Southern Field Division Energy Data

(in kWh)

February 2003

Date	West Branch			East Branch			
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic Powerplant SWP Generation	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation
1	32,536	0	144,000	0	1,428,372	2,418,048	152,985
2	9,688	0	144,000	0	1,936,824	2,543,136	227,241
3	9,856	0	0	0	1,296,924	2,268,864	146,979
4	35,392	0	0	0	1,208,760	2,205,984	147,147
5	34,216	0	0	0	1,119,828	2,176,608	127,680
6	10,416	0	0	0	1,159,404	2,319,072	128,688
7	11,312	0	0	0	1,123,572	2,155,008	127,806
8	11,312	0	0	0	1,250,460	2,216,160	138,999
9	11,368	0	0	0	1,371,828	2,244,288	149,184
10	35,952	0	0	0	1,053,216	2,245,248	126,840
11	10,640	0	0	0	1,122,564	1,838,304	126,126
12	11,704	34,848	0	0	1,134,828	1,843,776	96,726
13	11,424	0	600,000	0	1,164,288	1,647,360	135,156
14	11,256	0	1,800,000	0	762,000	1,630,752	70,518
15	10,584	0	720,000	0	766,140	1,693,344	111,216
16	9,968	0	720,000	0	787,284	1,674,624	82,572
17	10,136	0	0	0	666,132	1,712,832	80,934
18	9,688	0	0	0	670,968	1,732,608	81,648
19	10,080	0	0	0	752,832	1,924,320	80,808
20	10,024	0	0	0	670,152	1,581,888	81,879
21	9,520	0	0	0	667,416	1,511,424	79,590
22	9,128	0	0	0	692,508	1,626,624	82,908
23	10,192	0	0	0	986,604	1,586,688	119,091
24	10,024	328,392	0	0	561,180	1,915,680	39,669
25	99,120	165,456	0	0	932,376	1,713,216	52,899
26	10,976	0	0	0	996,852	2,145,120	131,964
27	644,784	1,724,112	2,520,000	0	1,197,168	2,661,696	150,801
28	688,856	1,737,432	2,520,000	0	1,224,408	3,012,768	142,716
Total	1,790,152	3,990,240	9,168,000	0	28,704,888	56,245,440	3,220,770